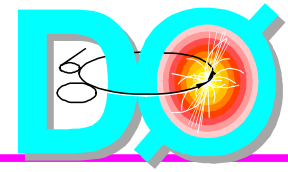


# Information Logging for D0

**Geoff Savage**

# Overview

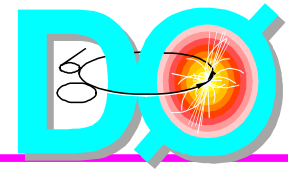
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- **Information logging definition**
- **Information flow**
- **Logging software**
  - ◆ **ZOOM error logger**
  - ◆ **Significant event system**
- **Architecture**

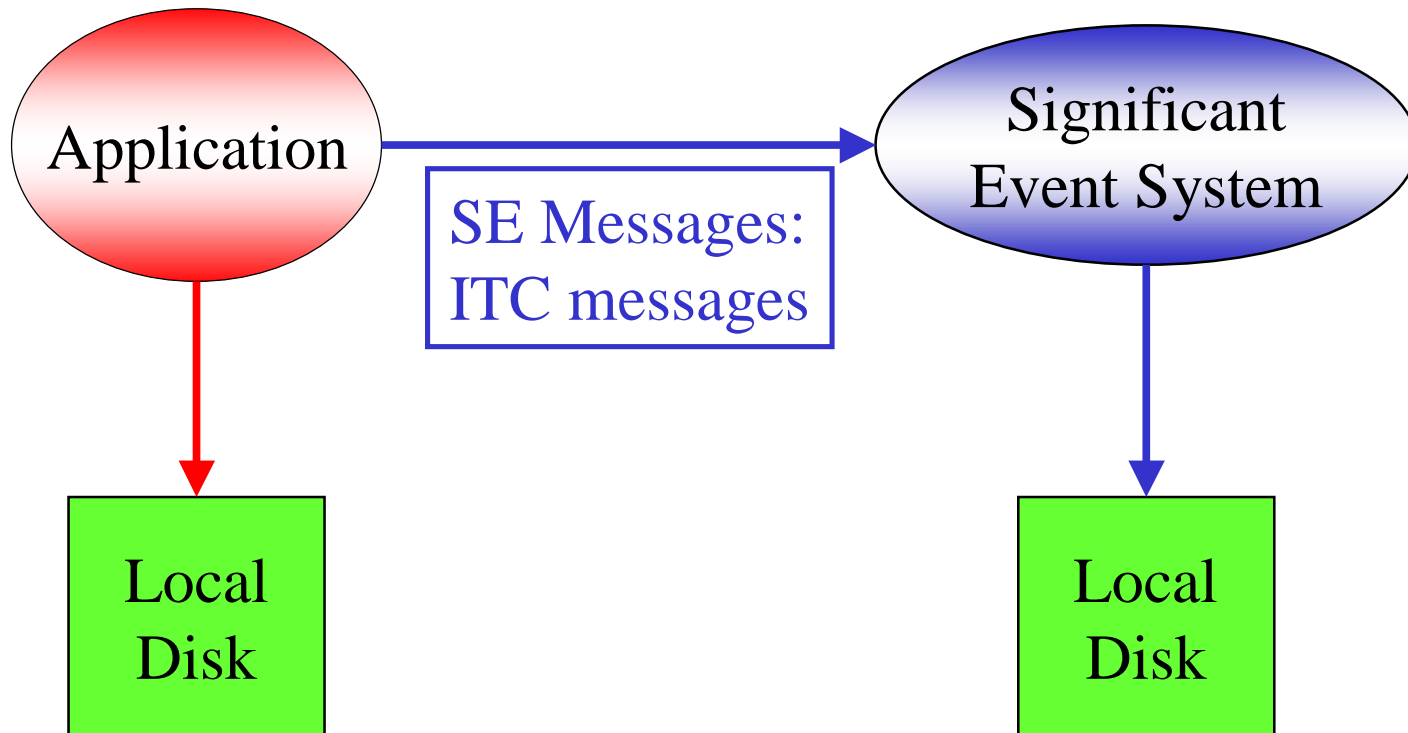
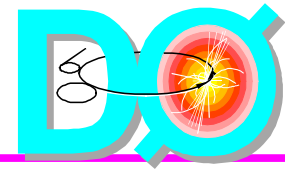
# Information Logging

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- From an application pass information to a programmer or user
  - ◆ Testing/debugging
    - Software functionality
    - Data problems
  - ◆ Significant events
    - Alarms
    - Status
- Information destinations
  - ◆ File and/or Display

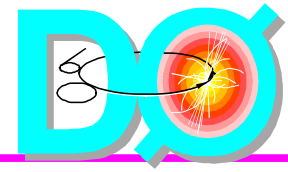
# Information Flow



Local Disk: attached to the host on which the application is running

# ZOOM Error Logger

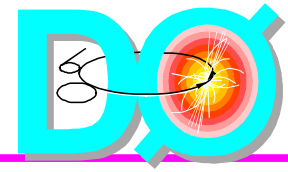
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- **Highlights**
  - ◆ **Uniform formatting**
  - ◆ **Multiple destinations**
  - ◆ **Throttling**
  - ◆ **Appearance**
  - ◆ **Statistics**
- **Currently single process (application)**
- **Extend to multi-applications???**

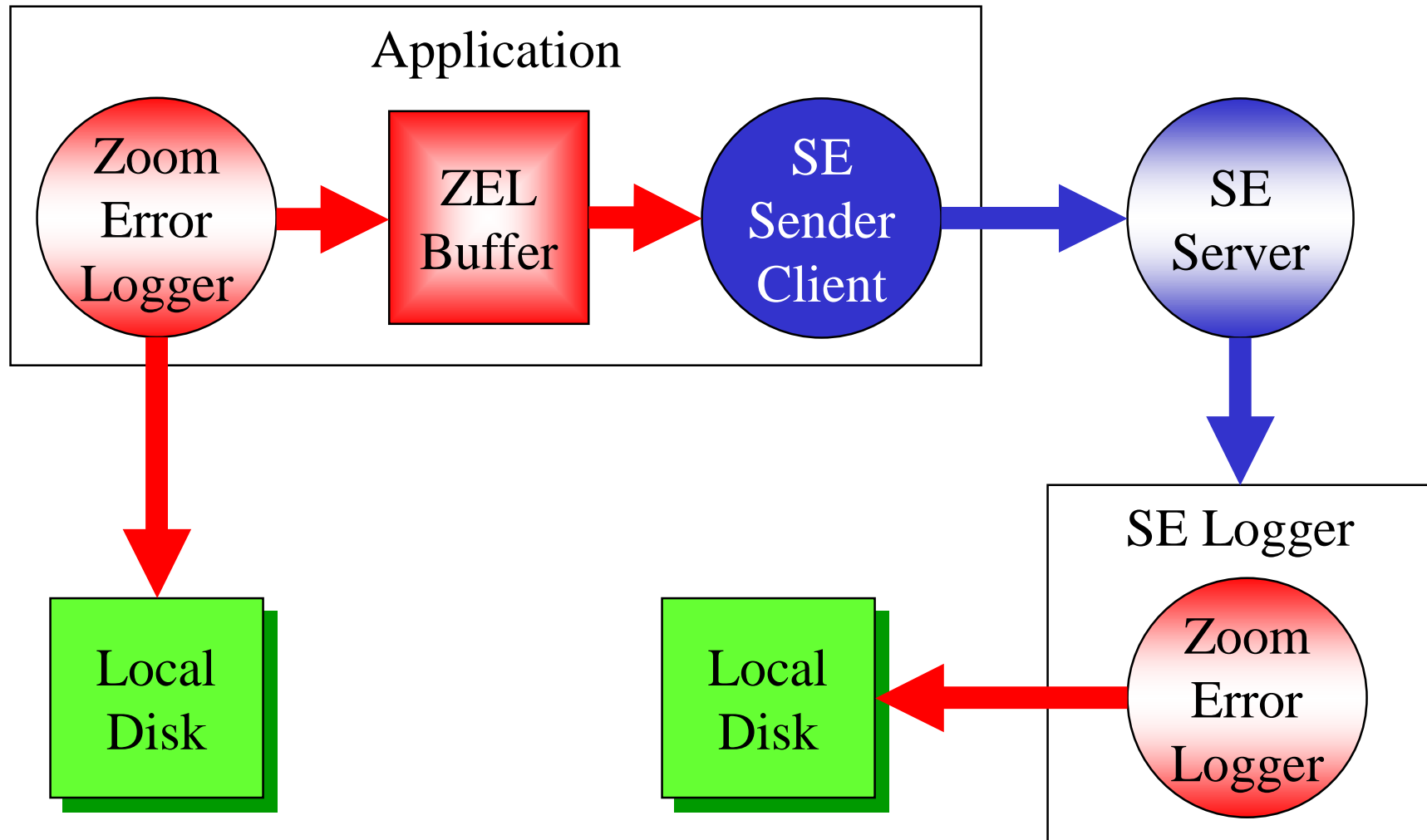
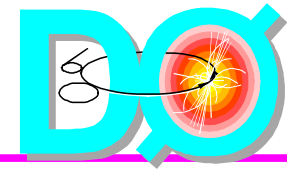
# Significant Event System

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- **Messages to archive file**
  - ◆ **Informational: started, paused, stopped, ...**
  - ◆ **Alarms: warning, severe (pause run), ...**
- **Display for user interaction**
- **Logger application**
  - ◆ **ZOOM error logger**
- **Server uses local log file for debugging**
  - ◆ **ZOOM error logger**

# Logging Architecture



# Collecting Messages

